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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/292,152	04/15/1999	MICHAEL A. FISCHER	00232/194001	3148	
9629 7	590 10/22/2002				
MORGAN LEWIS & BOCKIUS LLP			EXAMINER		
WASHINGTO	LVANIA AVENUE N N, DC 20004	W	NGUYEN	NGUYEN, DINH Q	
			ART UNIT	PAPER NUMBER	
			3752		
			DATE MAILED: 10/22/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)					
	09/292,152	FISCHER, MICHAEL A.	FISCHER, MICHAEL A.				
Office Action Summary	Examiner	Art Unit					
	Dinh Q Nguyen	3752					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet wi	th the correspondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	66(a). In no event, however, may a rewithin the statutory minimum of thirty ill apply and will expire SIX (6) MON cause the application to become AB	eply be timely filed (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).	-				
1) Responsive to communication(s) filed on	<u> </u>						
2a)⊠ This action is FINAL . 2b)□ Thi	s action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>1-104</u> is/are pending in the applicatio							
4a) Of the above claim(s) is/are withdray	vn from consideration.						
	5) Claim(s) is/are allowed.						
,)⊠ Claim(s) <u>1 and 21-35</u> is/are rejected.						
	Claim(s) is/are objected to.						
8) \boxtimes Claim(s) <u>2-20, 36-104</u> are subject to restriction Application Papers	and/or election requireme	erit.					
9) The specification is objected to by the Examiner	r.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. §	3 119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
 3. Copies of the certified copies of the prior application from the International But * See the attached detailed Office action for a list 	reau (PCT Rule 17.2(a)).						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of I	Summary (PTO-413) Paper No(s) nformal Patent Application (PTO-152)					

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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

2. Claims 1 and 21-35 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Inasmuch as none of these claims require a deflector having at least two reentrant slots; i.e., structure which one of ordinary skill in the art would clearly understand from the description to be essential or critical to the operation of the claimed sprinkler. All of applicant illustrated and described include a "deflector defining at least two reentrant slots disposed in opposition about a deflector axis" (page 8, lines 22-24). Furthermore, applicant has compared his sprinkler having a reentrant-slotted deflector with those having "the conventional straight-slotted deflector" (page 24, line 19) on page 16, 24, and 25. One of ordinary skill in the art would have clearly understood from these descriptions and comparisons that the reentrant slots were not only important, but were essential to applicant's "early suppression" sprinkler.

In the instant case, applicant states throughout the specification that his deflector has at least two reentrant slots and that "With this arrangement, there is diverted a quantity of fire retardant fluid sufficient to produce the required amount of thrust in the

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inner, downwardly-directed portion of the spray pattern at pressures lower than those produced by either straight slots or slots that taper to become slightly wider in the radially outward direction." (page 8, line 3-9). Applicant specified that there may be "variations in the shape and dimensions of the reentrant slots" (page 26, line 3-4), but has described no deflector with reentrant slots which will function in the manner as claimed. Accordingly, the aforenoted claims are clearly rejectable as being broader than the supporting disclosure. Gentry Gallery Inc. v. Berline Corp, 45 USPQ 2d 1498, 1503 (CAFC 1998).

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claims 1, 21-35 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The limitations of the instant claims are of operating parameters (i.e., NFPA, storage height, ceiling height, K factor) and not of the features that make up the apparatus.

Allowable Subject Matter

5. Claims 2-20, and 36-104 are allowed.

Response to Arguments

6. Applicant's arguments filed 22 July 2002 have been fully considered but they are not persuasive. Applicant fails to overcome the rejections of 35 U.S.C. 112, 1st and 2nd. Applicant has not provided the structural limitations required to achieve the claimed invention of an early suppression fast response (ESFR) sprinkler with a K factor of 25

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and liquid pressure of at least 15 psi, the structural make up of the sprinkler required to achieve the specified K factor and pressure is of an importance feature to differentiate applicant claimed invention with other existing sprinklers such as the Ponte's sprinkler (U.S. Patent No. 5,915,479), which is also disclosed sprinkler operating at K factor of 25 (column 4, lines 8-10). Furthermore, the first paragraph on page 9 of the amendment dated 22 July 2002, applicant stated "a deflector with at least two reentrant slots is not an essential or critical feature of the claimed invention". If the structural limitation of the sprinkler is not an essential feature, then applicant has to disclose what are critical features of the claimed invention. The storage height, ceiling height, K factor, and pressure are only essential operating parameters of the claimed sprinkler system and are not critical features that make up a sprinkler. The essential features of a sprinkler for operating at a specific storage height, a specific ceiling height, a specific K factor, and a specific pressure are missing from the claimed sprinkler apparatus, especially missing of the claimed reentrant slots of U.S. Patent No. 6,059,044 in which this application claimed as a continuation-in-part.

7. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

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extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Dinh Q Nguyen whose telephone number is (703) 305-

0248. The examiner can normally be reached on Monday-Friday from 6:30 AM to 4:00

PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Michael Mar can be reached on (703) 308-2087. The fax phone numbers

for the organization where this application or proceeding is assigned are (703) 308-7766

for regular communications and (703) 746-4591 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is (703) 308-

0861.

dan

October 18, 2002

PRIMARY EXAMINER

Michael Man

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